

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2003/002419

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: F04B 35/04, 49/06; F25B 1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: F04B, F25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2001/054253 A1 (LG ELECTRONICS) 26 July 2001 (26.07.2001) <i>claims 1-10; fig. 4-9.</i>	1,7,9
A	US 2003/0177773 A1 (KIM) 25 September 2003 (25.09.2003) <i>claims 1,4,12; fig. 4-7.</i>	7,9
A	US 6527519 B2 (HWANG et al) 4 March 2003 (04.03.2003) <i>claims 1,12; fig. 2-5.</i>	7,9
A	US 2003/0026702 A1 (YOO et al) 6 February 2003 (06.02.2003) <i>fig. 2-7; claims 1,8,13.</i>	7,9

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„E“ earlier application or patent but published on or after the international filing date

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„O“ document referring to an oral disclosure, use, exhibition or other means

„&“ document member of the same patent family

„P“ document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search
9 July 2004 (09.07.2004)

Date of mailing of the international search report
13 August 2004 (13.08.2004)

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Reference signs in parentheses should be inserted in the claims to increase their intelligibility (Rule 6.2b PCT).

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Information on patent family members

International application No.

PCT/KR 03/02419-0

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	A	20030026 702		none		
US	A	20030177 773		none		
US	B	6527519	2003-03-04	KR	A	2002041983
				KR	A	2002041982
				BR	A	0105524
				JP	A	2002213367
				CN	A	1356473
						2002-06-05
						2002-06-05
						2002-09-24
						2002-07-31
						2002-07-03